

Nitrate/ Nitrite by Flow Injection Colorimetry- LATCHAT QuickChem Method 10-107-04-1-C or 10-107-04-1-A					
Facility Name: _____ VELAP ID: _____					
Assessor Name: _____ Analyst Name: _____ Inspection Date: _____					
Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Records Examined: SOP Number/ Revision/ Date _____ Analyst: _____					
Sample ID: _____ Date of Sample Preparation: _____ Date of Analysis: _____					
1) If analyzing for Nitrite OR Nitrate, are samples preserved in the following manner: <u>Nonpotable</u> : ≤ 6°C, analyzed within 48 hours of collection <u>Drinking water</u> : ≤ 6°C, analyzed within 48 hours unless chlorinated, for which nitrate can be held up to 14 days	40 CFR 136.3 Table II, 40CFR 141.23 (k)(2), EPA 815-R-05-004				
2) If analyzing for Nitrate-Nitrite, are samples preserved to pH <2 with sulfuric acid, preserved by storing at ≤6°C, and analyzed within 28 days of collection?	40 CFR 136.3 Table II, 40CFR 141.23 (k)(2)				
<i>Samples MAY be pre-filtered if build-up of suspended matter in the reduction column restricts sample flow. (8.5)</i>					
3) Are all reagent solutions degassed for one minute using helium?	7.1				
4) Is sulfanilamide color reagent made fresh monthly?	7.1				
5) Are 20 mg/L or 200 mg/L nitrate and nitrite standards made fresh at least every 5 days?	7.2				
6) Are nitrate and nitrite working standards made fresh daily?	7.2				
7) Is the instrument allowed to equilibrate until a stable baseline is achieved?	11.4				
8) Is the MDL established per 40 CFR 136?	9.2.1				
9) Is a second source QCS (or LCS) analyzed with each batch? (Lab must establish acceptance range.)	9.7, 10.8				
10) Is a LRB analyzed with each batch of 20 samples and determined to be less than the Minimum Level? (Method does not define minimum level- use MDL per EPA 353.2.)	9.4				
Notes/Comments:					

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11) Is a mid-range calibration standard analyzed after every 10 samples and its recovery within $\pm 10\%$?	10.7, 10.8				
12) If samples are over-range, are they diluted and reanalyzed?	12.2				
13) Are results reported to two significant figures for samples above the MDL?	12.3				

Notes/Comments: